

AMENDMENTS TO THE CLAIMS

Please cancel claims 22-24, 27-36, 41 and 44-58.

Please amend claim 39 and add new claims 59-63 as shown below:

1.-38. (Canceled).

39. (Currently amended) A transgenic female ruminant comprising germline and somatic cells that comprise a the nucleic acid molecule of claim 22 comprising a mouse whey acidic protein (WAP) promoter operably linked to a nucleotide sequence encoding a polypeptide, wherein the polypeptide comprises a biofilament polypeptide and a leader sequence that enables secretion of the biofilament polypeptide by milk-producing cells into milk of the ruminant, wherein the biofilament polypeptide is a dragline silk polypeptide selected from the group consisting of *Araneus diadematus* fibroin-3 (“ADF-3”), *Araneus diadematus* fibroin-4 (“ADF-4”), *Nephila clavipes* dragline silk-1 (“NcDS-1”), and *Nephila clavipes* dragline silk-2 (“NcDS-2”), and wherein the ruminant secretes a the biofilament polypeptide into milk.

40. (Previously presented) A method for producing a biofilament polypeptide, comprising: providing a transgenic female ruminant of claim 39 and isolating the biofilament polypeptide from milk produced by the transgenic female ruminant.

41.-58. (Canceled).

59. (New) A transgenic female ruminant comprising germline and somatic cells that comprise a nucleic acid molecule comprising a β -casein promoter operably linked to a nucleotide sequence encoding a polypeptide, wherein the polypeptide comprises a biofilament polypeptide and a leader sequence that enables secretion of the biofilament polypeptide by milk-producing cells into milk of the ruminant, wherein the biofilament polypeptide is a dragline silk polypeptide selected from the group consisting of *Araneus diadematus* fibroin-3 (“ADF-3”), *Araneus diadematus* fibroin-4 (“ADF-4”), *Nephila clavipes* dragline silk-1 (“NcDS-1”), and *Nephila clavipes* dragline silk-2 (“NcDS-2”), and wherein the ruminant secretes the biofilament polypeptide into milk.

60. (New) The transgenic female ruminant of claim 39, wherein the biofilament polypeptide is ADF-3.

61. (New) The transgenic female ruminant of claim 39, wherein the biofilament polypeptide is ADF-4.

62. (New) The transgenic female ruminant of claim 39, wherein the biofilament polypeptide is NcDS-1.

63. (New) The transgenic female ruminant of claim 39, wherein the biofilament polypeptide is NcDS-2.